

As used herein, an endocrine disruptor (also referred to as an exogenous endocrine disruptor or an environmental hormone) means an exogenous substance which, when incorporated into a living body of an animal, influences a normal activity of a hormone naturally exerted in the living body. The endocrine disruptors include ones that maintain, promote or suppress a normal activity of a hormone. Substances that potentially influence a normal activity of a hormone are also included within the definition.

Currently, about 70 substances (or groups of substances) are suspected to have endocrine disrupting activities. These substances are classified in the materials for the abstract of 24th Meeting of the Japan Society for Environmental Chemistry (1998) as follows based on the methods for analyzing the corresponding substances:

- (1) Category 1: organochlorine compounds (e.g., general organochlorine compounds, polychlorinated biphenyl (PCB));
- (2) Category 2: phenols (e.g., general phenols, bisphenol-A, 2,4-dichlorophenol, pentachlorophenol),
- (3) Category 3: phthalate esters (e.g., general phthalate esters);
- (4) Category 4: aromatic hydrocarbons (e.g., benzo(a)pyrene, di-2-ethylhexyl adipate (DEHA), benzophenone, 4-nitrotoluene, styrene dimer and trimer, 1,2-dibromo-3-chloropropane, styrene, n-butylbenzene);
- (5) Category 5:

pesticides (e.g., general pesticides, 2,4,5-T (trichlorophenoxyacetic acid), 2,4-D (dichlorophenoxyacetic acid), benomyl, amitrole, methomyl); (6) Category 6: organotin compounds; (7) Category 7: estrogens; dioxins which are not classified into the above-mentioned seven categories; and substances which are excluded from the categories, i.e., mirex, toxaphene, aldicarb and kepone (chlordecone). These categories and the substances are shown in Table 1.

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Table 1

Category/Substance	
Category 1	Category 3
Polychlorinated biphenyl (PCB)	Di-2-ethylhexyl phthalate
Polybrominated biphenyl (PBB)	Butylbenzyl phthalate
Hexachlorobenzene (HCB)	Di-n-butyl phthalate
Hexachlorocyclohexane	Dicyclohexyl phthalate
Chlordane	Diethyl phthalate
Oxychlordane	Dipentyl phthalate
trans-Nonachlor	Diethyl phthalate
DDT	Dipropyl phthalate
DDE, DDD	
Kelthane	Category 4
Aldrin	1,2-Dibromo-3-chloropropane
Endrin	Benzo(a)pyrene
Dieldrin	Di-2-ethylhexyl adipate
Endosulfan (benzoepin)	Benzophenone
Heptachlor	4-Nitrotoluene
Heptachlor epoxide	Styrene dimer and trimer
Methoxychlor	Styrene
Octachlorostyrene	n-Butylbenzene
Category 2	Category 5
Pentachlorophenol (PCP)	2,4,5-Trichlorophenoxyacetic acid
Alkylphenol (C5-C9)	2,4-Dichlorophenoxyacetic acid
Bisphenol-A	Amitrole
2,4-dichlorophenol	Atrazine